

Title (en)

CAPACITANCE DETECTION DEVICE AND OPTICAL WAVELENGTH-SELECTIVE FILTER DEVICE

Title (de)

KAPAZITÄTSERKENNUNGSVORRICHTUNG UND OPTISCHE WELLENLÄNGENSELEKTIVE FILTERVORRICHTUNG

Title (fr)

DISPOSITIF DE DÉTECTION DE CAPACITÉ ET DISPOSITIF DE FILTRE SÉLECTIF EN LONGUEUR D'ONDE OPTIQUE

Publication

EP 3502718 B1 20231004 (EN)

Application

EP 16914138 A 20160822

Priority

JP 2016074410 W 20160822

Abstract (en)

[origin: EP3502718A1] A capacitance detection apparatus is provided with: a parallel circuit in which a first series circuit and a second series circuit are connected in parallel, wherein a tested body and a first resistance element are connected at a first node in the first series circuit, and a reference capacitance element and a second resistance element are connected at a second node in the second series circuit; a power supply circuit configured to apply an alternating current voltage with a specific frequency to the parallel circuit; an inductor element connected between the first node and the second node and configured to increase a phase difference in the voltage with the specific frequency between the first and second nodes; and an output device configured to output an electric signal corresponding to a capacitance of the tested body on the basis of the phase difference.

IPC 8 full level

G01R 27/26 (2006.01)

CPC (source: EP US)

G01R 27/26 (2013.01 - EP US); **G01R 27/2605** (2013.01 - EP US); **G02B 5/284** (2013.01 - US)

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